Ordering Information

Eutech manufactures a comprehensive range of laboratory and field instrumentation for water analysis. Eutech also produces on-line process instruments for water quality monitoring and control. Innovative products from Eutech include:

(a) Pocket-sized Testers
(b) Waterproof Testers
(c) Hand-held Meters
(d) Waterproof Hand-held Meters
(e) Laboratory Bench Meters
(f) Industrial Process Controllers

3 Year Warranty

Design of Eutech's Bench meters are patented under the United States Patent Law, patent number: 371 748. Patent rights in other areas are pending.

Order No.	Item
EC-PH510/01	CyberScan pH 510 with EC-PH/S-TEMB01P
EC-PH510/01S	CyberScan pH 510 with EC-PH/S-TEMB01P and integral electrode holder
EC-ION510/01	CyberScan Ion 510 with EC-PH/S-TEMB01P
EC-ION510/01S	CyberScan Ion 510 with EC-PH/S-TEMB01P and integral electrode holder
EC-PC510/03S	CyberScan PC 510 with EC-FE72522-01B, EC-CONSEN91W and integral electrode holder
EC-PH-1000/01N	CyberScan pH 1000 with EC-PH-TEMB01P, EC-DA-2000 and EC-CA01M09F09
EC-PH-2500/01	CyberScan pH 2500 with EC-PH-TEMB01P, EC-DA-2000 and EC-CA01M09F09
EC-CON-500/03	CyberScan CON 500 with EC-CONSEN21B
EC-FG73504-01B	Glass-body refillable pH combination electrode (1m cable)
EC-FE72522-01B	Epoxy-body double-junction pH combination electrode (1m cable)
EC-FE79602-01B	Epoxy-body double-junction ORP combination electrode (1m cable)
EC-FE73528-01B	Epoxy-body 3-in-1 pH combination electrode with built-in ATC for pH 1000/2500 (1m cable)
EC-FE73529-01B	Epoxy-body 3-in-1 pH combination electrode with built-in ATC for pH/Ion 510 (1m cable)
EC-PHS-TEMB01P	Stainless steel temperature probe for pH/Ion 510 (1m cable)
EC-PH-TEMB01P	Stainless steel temperature probe for pH 1000/ 2500 (1m cable)
EC-CONSEN21B	Epoxy-body 2 platinum rings conductivity electrode, k=1.0 with ATC (1m cable)
EC-CONSEN71B	Epoxy-body 2 platinum rings conductivity electrode, k=0.1 with ATC (1m cable)
EC-CONSENB1B	Epoxy-body 2 platinum rings conductivity electrode, k=10.0 with ATC (1m cable)
EC-CONSEN91W	Ultem-body 2 stainless steel rings conductivity electrode, k=1.0 with ATC (1m cable)
EC-DA-2000	Data Acquisition Software (1 CD-ROM)
EC-CA01M09F09	PC communication cable (1m cable)
EC-PH-ELSTDC	Electrode arm and base plate
EC-120-ADA	AC/DC power adapter (120 VAC, 50/60 Hz)
EC-220-ADA	AC/DC power adapter (220 VAC, 50/60 Hz)

Distributed By:

WORLD-WIDE SALES AND SERVICE SUPPORT

Eutech provides world-wide sales and service support for all its products through its network of international distributors. Contact Eutech for details of your nearest distributor.

Note: Eutech reserves the right to make changes, improvements and modifications to products shown, without prior notice.

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EUTECH INSTRUMENTS
Technology Made Easy ...

For All Your Laboratory Needs

Corporate Profile

A Leader In The Field of Electrochemical Instrumentation

Eutech Instruments is a dynamic company rapidly positioning itself globally as a leading manufacturer of electrochemical instrumentation for water analysis. A pioneer in developing ASIC-based (Application Specific Integrated Circuit) instruments, Eutech Instruments has gained international awards and recognition for its achievements in sensor technology, software programming and product design. Underlying its strong commitment to Research & Development, is the constant drive by Eutech engineers to apply new, emerging technologies to the design and manufacture of advanced electrochemical instruments. Eutech offers a comprehensive range of laboratory and field instrumentation for water analysis and continuous on-line process instruments for monitoring and control of pH, Conductivity, Total Dissolved Solids, Redox Potential (ORP) and Dissolved Oxygen (DO). Eutech's products are certified to comply with global standards for electromagnetic emission and interference. Eutech Instruments is dedicated to producing convenience products for water analysis.

CE

Accessories

ELECTRODES

Wide selection of epoxy or glass-body electrodes for pH, REDOX, Conductivity or Ion Concentration. Combination design does not require a separate sensing and reference half-cell electrodes.

Choose appropriate electrode from the separate brochure on pH/ISE electrodes. Calibrating/Standard solutions are also available and sold separately.

CALIBRATION SACHETS

Airtight calibration sachets (20ml each) are packaged with meter for extra convenience. Sachets are also supplied in box of 20.

BUFFERS & CALIBRATION STANDARDS

Buffers & calibration solutions for pH, ORP and Conductivity are supplied in 480ml leak-proof bottles. They are economical and popular for laboratory use. ISE calibration standards solutions are also available.

ISE & pH electrode Brochures

Specifications

CyberScan	pH 510	Ion 510	pH 1000	pH 2500	PC 510	CON 500
	low cost, memory function, optional electrode arm	direct ion concentration reading for an economical price	RS232 output; advanced setup function	direct ion concentration readout; RS232 output	take readings in pH, mV, Conductivity & TDS	basic conductivity meter, economical price
SPECIFICATIONS						
pH						
Range	0.00 to 14.00 pH	0.00 to 14.00 pH	-2.00 to 15.99 pH	-2.00 to +15.99 pH	-2.00 to +16.00 pH	
Resolution	0.01 pH	0.01 pH	0.1, 0.01 pH	0.1, 0.01 pH	0.01 pH	
Accuracy	±0.01 pH;	±0.01 pH	±0.1, ±0.01 pH	±0.1, ±0.01 pH	±0.01 pH	
Buffer Option	USA: pH 4.01, 7.00, 10.01 NIST: pH 4.01, 6.86, 9.18	USA: pH 4.01, 7.00, 10.01 NIST: pH 4.01, 6.86, 9.18	USA: pH 1.68, 4.01, 7.00, 10.01, 12.45	USA: pH 1.68, 4.01 7.00, 10.01, 12.45	USA: pH 1.68, 4.01, 7.00, 10.01, 12.45 NIST: 1.68, 4.01, 6.86, 9.18, 12.45	
Calibration	1, 2 or 3 points	1, 2 or 3 points	5 points (standard & editable non-standard pH buffers)	5 points (standard & editable non-standard pH buffers)	5 points	
mV						
Range	-200 to +200 mV; -2000 to +2000 mV	-200 to +200 mV; -2000 to +2000 mV	-999.9 to +999.9 mV; -1999 to +1999 mV	-999.9 to +999.9 mV; -1999 to +1999 mV	-600 to 600 mV	
Resolution	0.1 mV (<200 mV); 1 mV (>200 mV)	0.1 mV (<200 mV); 1 mV (>200 mV)	0.1 mV; 1 mV	0.1 mV; 1 mV	0.1 mV (<200 mV); 1 mV (>200 mV)	
Accuracy	±0.2 mV (<200 mV); ±2 mV (>200 mV)	±0.2 mV (<200 mV); ±2 mV (>200 mV)	±0.2 mV; ±2 mV	±0.2 mV; ±2 mV	±0.2 mV (<200 mV); ±2 mV (>200 mV)	
Ion						
Range		0.01 to 1999 ppm		0 to 9999		
Resolution		0.01 ppm (0.01 to 0.99 ppm), 0.1 ppm (1.0 to 199.9 ppm) 1 ppm (200 to 1999ppm)		±1 least significant digit		
Accuracy		±1.0% Full Scale		±0.5% of reading		
Calibration		3, minimum 2 points		5, minimum 2 points		
Conductivity						
Range					0 to 19.99, 199.9, 1999 µS/cm, 19.99, 199.9 mS/cm	0 to 19.99, 199.9, 1999 µS/cm, 19.99, 199.9 mS/cm
Resolution					0.01, 0.1, 1 µS/cm; 0.01, 0.1 mS/cm	
Accuracy					±1% Full Scale +1 digit	±1% Full Scale
Calibration					5 points (1 per point)	5 points (1 per point)
TDS						
Range					0 to 9.99, 99.9, 999 ppm; 9.99, 99.9 ppt (Max. of 199.9 based on factor setting)	
Resolution					0.01, 0.1, 1 ppm; 0.01, 0.1 ppt	
Accuracy					±1% Full Scale +1 digit	
Calibration					5 points (1 per range)	
Temperature						
Range	0.0 to 100.0 °C	0.0 to 100.0 °C	0.0 to 100.0 °C	0.0 to 100.0 °C	-10.0 to 110.0 °C (14.0 to 230.0 °F)	0.0 to 80.0 °C
Resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C	0.1 °C (0.1 °F)	0.1 °C
Accuracy	± 0.5 °C	± 0.5 °C	± 0.5 °C	± 0.5 °C	± 0.5 °C (± 0.9 °F)	± 0.5 °C
ATC	Yes (0 to 100 °C)	Yes (0 to 100 °C)	Yes (0 to 100 °C)	Yes (0 to 100 °C)	Yes (0 to 80 °C)	Yes (0 to 80 °C)
METER FUNCTIONS						
Slope & Offset Display	Yes					
Normalization Temperature					15.0 to 30.0 °C (adjustable)	20.0 or 25.0 °C
Temperature Coefficient					0.0 to 10.0% per °C	0.0 to 10.0% per °C
Cell Constant					1.0	0.1, 1.0, 10.00 (selectable)
Auto-ranging					Yes	
Averaging/Stability (READY)	Yes					
HOLD	Yes					
Auto-Off	Yes (selectable)					Yes (selectable)
DESIGN FEATURES						
Display	Custom dual LCD					
Built-in Electrode Arm	Yes (optional)	Yes (optional)			Yes	
Memory	50 data sets	50 data sets	16 data sets	16 data sets		16 data sets
Output	Recorder (±200mV)	Recorder (±200mV)	RS232 (via cable), recorder	RS232 (via cable), recorder		
Input	BNC, phono (ATC)	BNC, phono (ATC)	BNC, phono (ATC)	BNC, phono (ATC)	BNC, 6-pin round connector	BNC, phono (ATC)
Power Requirement	9V DC adapter for 120 VAC or 230 VAC , 200mA					
Dimension/Weight	Meter: 18 x 23 x 6 cm / 950 g; Meter with electrode arm: 18 x 23 x 6 cm / 1250 g Boxed: 40 x 26 9 cm / 1650; Boxed (meter with electrode arm): 40 x 26 9 cm / 1950g					

Standard

MICROPROCESSOR-BASED
all CyberScan bench meters are equipped with Application Specific Integrated Circuit (ASIC) to provide high level of sophistication and advanced user-friendly features.

MULTI-POINT PUSH-BUTTON CALIBRATION
ensures unprecedented accuracy throughout the full measurement range

Features

AUTO-BUFFER RECOGNITION
for pH calibration and AUTO-RANGING CAPABILITY for conductivity/TDS measurements eliminates guesswork during meter operation

ELECTRODE CHARACTERISTICS DISPLAY
pH slope and offset display is available in all pH models to verify electrode condition

Of

AVERAGING/STABILITY FUNCTION
displays READY when reading has stabilized

HOLD FUNCTION
freezes the reading for later viewing and recording

CyberScan

AUTOMATIC TEMPERATURE COMPENSATION (ATC)
compensates for the electrode response under varying temperature conditions

EASY-TO-READ DISPLAY
provides optimum view for easy reading of measured values, complete with mode and units of measure. Graphic symbols and error message codes provide user comprehensive information for easy and trouble-free operation

Bench

INNOVATIVE DESIGN
a handy slide-out instruction card serves as a quick reference guide for keypad functions and troubleshooting

SPLASH-PROOF KEYPAD
protects the meter from accidental spills. Tactile feedback during operation confirms key selection

Meters

NON-SKID RUBBER PADS
immobilise meter to keep it in a firm position during operation

CyberScan pH 510

Basic Bench pH / mV /°C Meter

This easy-to use pH/mV/°C meter is ideal for students and technicians who need to take quick, accurate readings. Suitable for daily laboratory use, its compact design includes a slide-out instruction card with quick keypad reference and troubleshooting tips. An optional integral electrode arm holds probes firmly in place.

- Low cost plus high performance
- 0.1 mV resolution --- use for ORP measurements
- Dual display of pH or mV with temperature
- 3-point pH calibration with auto-buffer recognition
- Selectable USA or NIST buffer sets
- Large memory capacity stores up to 50 data sets of pH and mV readings with temperature
- Analog recorder output links chart recorder or other recording device for data analysis
- Non-volatile memory retains all stored data and calibration values even when power is disconnected
- Reset function allows factory defaults to be downloaded whenever new measurement procedures are taken

CyberScan Ion 510

Basic Bench Ion Concentration / pH / mV/ °C Meter

Measure ion concentration pH, mV, and temperature all in one meter! Preprogrammed ion calibration points prepares user to take readings in minutes. Large LCD display shows pH or mV and °C readings, or ppm and mV electrode output in the ion mode. This simultaneous display of ppm and mV allows the user to verify electrode operation while taking measurements.

- Direct readout of ion concentration in a basic no-frills ion meter
- Up to 3 ion calibration points for unparalleled accuracy when measuring mono- or di-valent ions
- Works with any Ion Selective Electrode with BNC connector
- Up to 50 data sets of Ion and pH readings with temperature can be stored and recalled at the touch of a button
- Dual display of pH or mV plus temperature, or ppm and electrode output in mV
- Recorder output; HOLD function; Selectable "READY" function
- Reset function allows factory defaults to be downloaded whenever new measurement procedures are taken

CyberScan PC 510

Multi-parameter Bench pH / mV / Conductivity / TDS /° °C /° °F Meter

The multi-parameter PC 510 bench meter has the best price to performance ratio in its class. Measure pH, mV, Conductivity, TDS and temperature – all in ONE meter complete with electrodes. Compact design features a large LCD display that reads pH, mV, conductivity or TDS along with temperature (°C or °F). An integral electrode arm conveniently holds various electrodes neatly in place and is a great space-saver.

- Toggle easily between pH, mV, conductivity, and TDS measurements
- 5-point push-button calibration for pH (with selectable USA or NIST buffer sets)
- Auto-ranging feature for conductivity and TDS ... eliminates guesswork in selecting suitable measurement range
- Complete functions to customize meter operations including: Unit of Temperature (°C or °F); Temperature Coefficient; Normalisation Temperature; Stability; Reset to default setup
- Other features: Memory recall on previous calibration points; pH electrode slope and offset; and conductivity/ TDS effective cell constants per range
- Unique conductivity electrode specially designed to ensure minimum bubble entrapment

CyberScan CON 500

Basic Bench Conductivity /°C Meter

This CON 500 is a easy-to-use bench Conductivity meter that accurately reads conductivity from 0 to 199.9 mS/cm across five ranges with unprecedented accuracy of 1% full scale! Its speed and low cost makes it ideal for all types of routine water quality testing in your lab. Large LCD display reads conductivity and temperature complete with annunciators for different modes and functions.

- Auto-ranging feature for conductivity readings... eliminates guesswork in selecting suitable range
- 5-point conductivity calibration (1 point per range) with ±1% full scale accuracy guarantees high accuracy across entire measurement range
- Recalls previous calibration data
- Selectable automatic or manual temperature compensation guarantees high accuracy with or without temperature sensor
- Adjustable temperature coefficient gives better accuracy
- Selectable cell constant of 0.1; 1.0; or 10.0 lets you choose the best cell suitable for very low or high range of measurements
- Non-volatile memory stores and retains up to 16 data sets even when meter is powered off
- Includes conductivity electrode with built-in temperature sensor that is specially designed to ensure minimum bubble entrapment

CyberScan pH 2500

Deluxe Bench Ion Concentration / pH / mV / Rel mV /° °C Meter with RS 232C

The CyberScan pH 2500 meter makes collecting large volumes of measurements easy. Just hook up to a computer or printer and the meter performs data entry for you. Each data set includes Ion Concentration pH or mV reading with temperature, date and time.

It measures and directly displays ion readings in ppm, ppt, % or any other units of your choice. No necessity to plot a logarithmic graph. Data acquisition software (DAS) downloads data to your computer ready to import into spreadsheet programs.

- Sends data to portable printer or PC on programmed time intervals, when reading is stable, automatically or manually
- DAS (Data Acquisition Software) organizes data files for spreadsheet software
- Ion concentration mode offers direct display of ion readings in ppm, ppt, % or any other units of your choice
- Viewing and printing of last calibration data with date/time is possible – suitable for Good Laboratory Practice (GLP) requirements; ideal for research and development laboratories
- Multi-point push-button calibration (up to 5 points) for full range accuracy. Special CAL EDIT function allows non-standard buffer values to be input for wider calibration options
- Audible limit alarm for preset high/low set-points – ideal for QC routine checks
- Timer for time lapse measurement freezes last measured value and beeps when set time is reached
- Highly customizable functions to configure meter including: pH function ◆ Auto-off ◆ Recorder Output ◆ Manual or Automatic Temperature Compensation ◆ Memory ◆ Default setup

CyberScan pH 1000

Deluxe Bench pH / mV / Rel mV /°C Meter with RS 232C

The CyberScan pH 1000 meter is a Deluxe Bench pH meter and an ideal choice for any laboratory. Quite similar to the CyberScan pH2500 in features and benefits, it allows you to hook up to a computer or printer directly via the RS232 and Data Acquisition Software (DAS), provided.

Main Features

Splash-proof Keypad

Large Customized LCD

Slide-out Card

Back Panel

RS 232 C Interface